Energy Efficiency Programs-Commercial/Industrial

Energy FinAnswer
FinAnswer Express
Self-Direction
Recommissioning
\$12.7 million in 2009



Energy Efficiency Programs-Residential

Home Energy Savings

Cool Cash
See Ya Later Refrigerator
ENERGY STAR New Homes

Cool Keeper
\$29 million spent in 2009







Product Take Back	\$ 15 M
Energy & Water Efficiency	269 K
Waste Reduction & Recycling	400 K
Greening Our Supply Chain	586 K
Employee & Community Involvement	202 K
Total Annual Savings	\$ 16.46 M

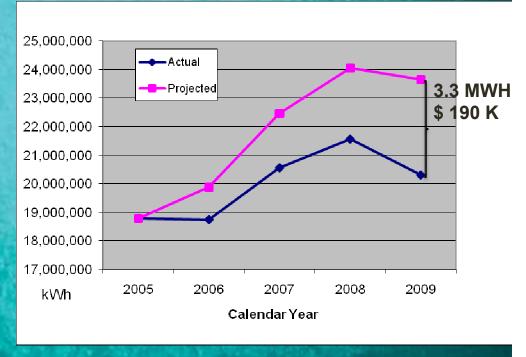
ENERGY & WATER EFFICIENCY



Initiatives Since 2005

Electrical Savings

Electricity	\$ 190 K
Natural Gas	74 K
Water	5 K
Annual Savings	\$ 269 K



Efficiency Projects

- Process Equipment
 - Industrial water pumps
 - Continuous annealer removal
 - Furnace cooling water bypass
- Lighting Projects
 - Changing all lights to T-8 florescent
 - New lighting layouts and fixtures to reduce wattage
 - Group re-lamping from 32 w to 28 w
 - Time clock & Motion Sensors
- HVAC
 - High efficiency units
 - Retro commissioning
 - Variable Frequency Drives
 - Building Automation System

Incentive Programs

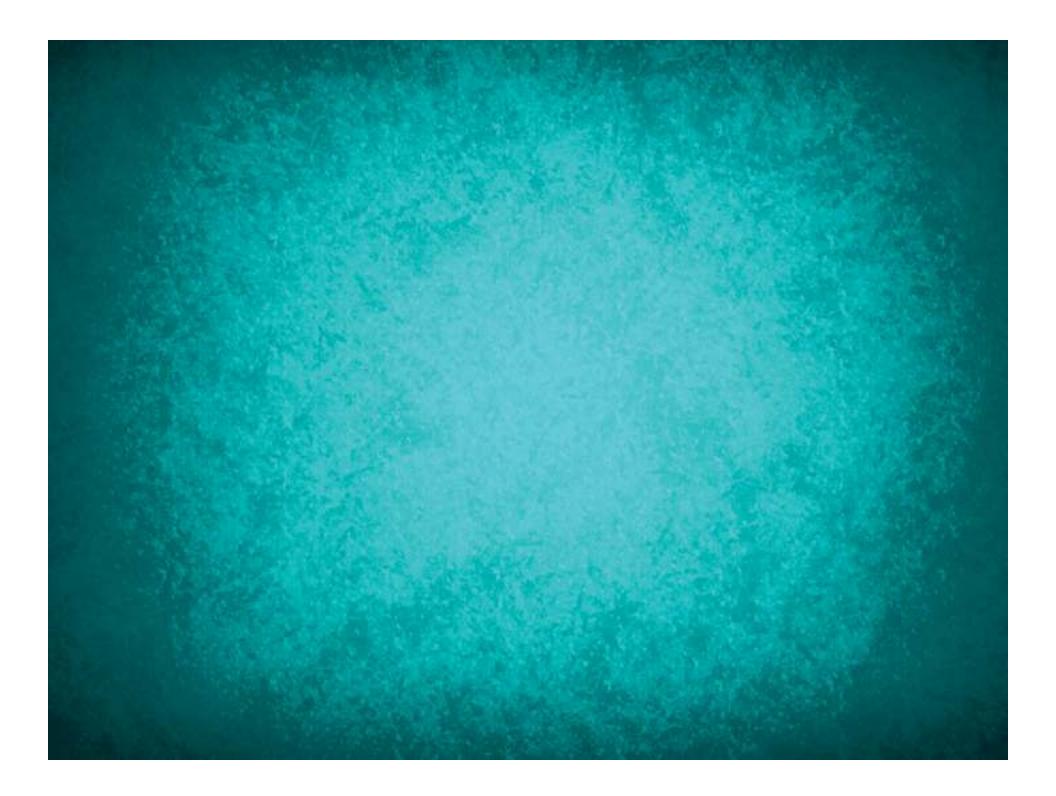
- Rocky Mountain Power
 - FinAnswer & FinAnswer Express
 - ReCommissioning
 - Self Direct
- Questar Thermwise
 - Weatherization
 - Equipment



Just Do It



- Contact Utility Providers
- Conduct outside and internal audits
- Budget the goal not the project this will lead to the projects
- Pick the low hanging fruit projects with the fastest payback



The Boyer Company

- Developed more than 24 million square feet of commercial buildings across the country
- Currently manages 14 million square feet of commercial property

In the figure is not by the life of

Experience:

- Roger Boyer and team have been developing in Utah, Western U.S. and around the country for 37 years.
- A collection of over 40 seasoned project managers, construction managers and property managers.
- Notable project: One Utah Center 24 Story, 419,000 SF class A office building

Market Overview

Commercial Real Estate

•Development portfolio includes: Class A Offices, MOBs, Government Facilities, Retail, Industrial, Warehouse Industrial Properties.

Tenants

Local & National

Trends

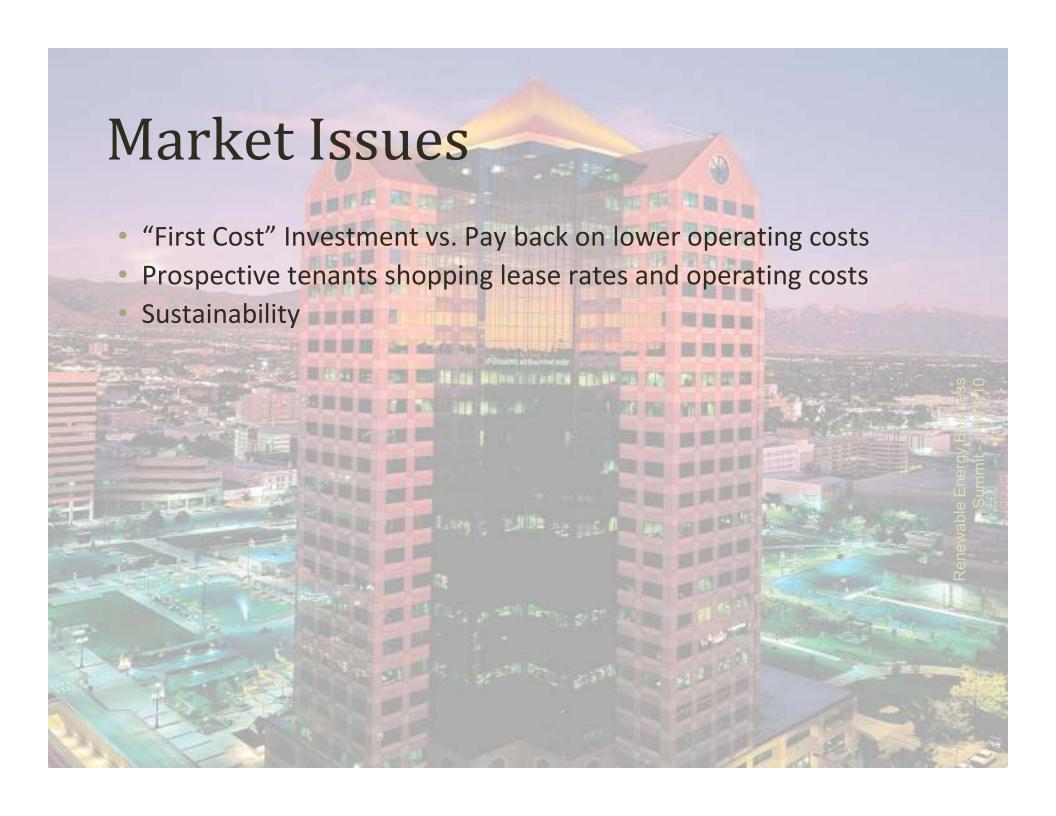
Energy costs continue to increase

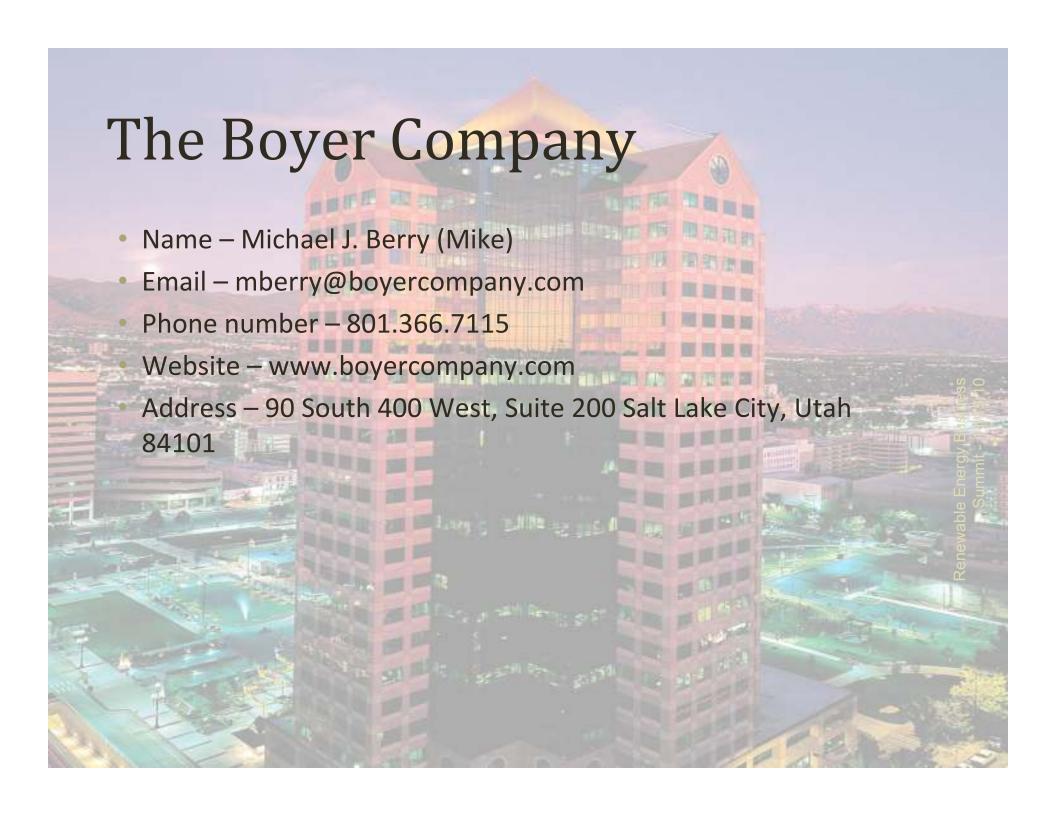
We along with tenants continue to search for ways to reduce operating costs.

Sustainability movement

Corporate policy

Public policy – Tax incentives





A PROFESSONAL LAW CORPORATION

Parsons Behle &

atimer





Applying Energy Efficiency for Business Expansion and Retention

By Parsons Behle & Latimer



Energy Efficiency Benefits Industry

- Industries operate in competitive markets
- Product prices are set in the market
- Profit = Product Sales Price Cost
- Efficiencies reduce costs to increase profits
- Energy is large cost component and must be managed
- Cost effective energy efficiency actions reduce costs and improve competitiveness



Incentives

- Demand Side Management
 - Promotes energy efficiency, conservation, more efficient management of electric loads
 - Self Direction Credit
 - Re-Commissioning Program
 - Energy Efficiency Incentives
- Renewable Energy Source
 - DSM measures
 - Waste-gas or waste-heat capture or recovery systems
 - Eligible for renewable energy credits



Eury Cooperations

Proven Examples

- Improved communications running pressure oxidation facility
 - 13,739,303 kWh/yr
- Installation of optimization software for pressure oxidation facility
 - 8,150,086 kWh/yr
- Oxygen compressor management program
 - 3,716,590 kWh/yr
- Reduced power draw on mill drive motors
 - 6,187,101 kWh/yr
- Others:
 - Higher efficiency lighting, motors, pumps
 - Variable speed motors
 - Smart metering on major energy—using processes
 - Combined waste-heat and power systems



Lev Copposition

To contact Parsons Behle & Latimer







DATA CENTER EFFICIENCY

What to do right now!

DEAN NELSON Sr Director, Global Datacenter Services



Its all about scale...

- Worldwide...
 - We are in 32 countries, in Seven languages, 24xForever
- Extreme Scale...
 - Over 90 million active users worldwide
 - Over 260 million items for sale in 50,000 categories
 - Over 93 billion database calls per day
 - We store 50TB of new incremental data daily
- Extreme Agility...
 - Hundreds of new features per quarter
 - We roll code to site daily
 - Roughly 10% of items are listed or ended everyday

Green Field Data Center

- Mandate efficiency as a project requirement
 - Efficiency mandate starting with the RFP
 - Be an "ACTIVE OWNER" and drive the implementation
- Result: 50% lower operating expense



Existing Data Centers

Implement Best Practices

- Blanking Panel Program
- Return Air Management
- Hot/Cold Aisle Containment
- Operational Best Practices
- UPS Module Rotation
- Lowered Cooling Tower Setpoint
- Lighting Control











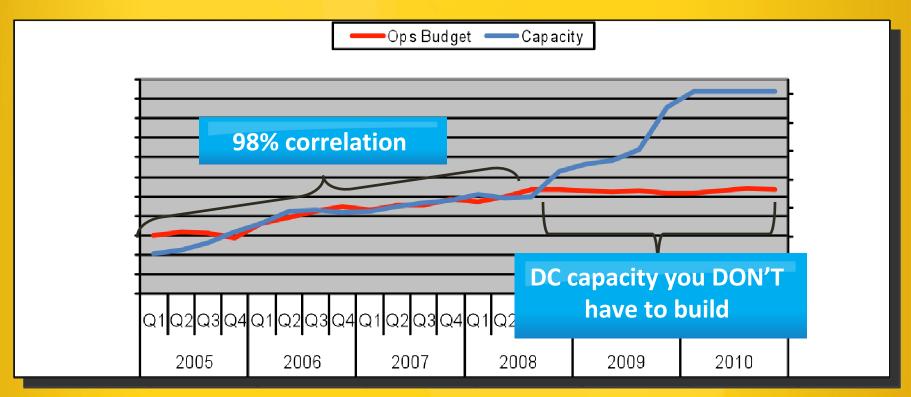
Result: 19% PUE reduction

- Achieved during 50% IT growth
- \$300,000 rebate awarded this week



Broke the relationship between growth & cost

The most efficient (cost + energy + flexible)
infrastructure and data center is the one you don't
have to build





We figured out our "miles per gallon" calculation

